

ABSTRACT OF THE DISCLOSURE**METHOD AND APPARATUS TO AUTONOMICALLY SELECT INSTRUCTIONS
FOR SELECTIVE COUNTING**

A method, apparatus and computer instructions in a data processing system for monitoring the execution of instructions. A routine is of interest is identified during the execution of a program. Instructions in the routine of interest are associated with a set of indicators to form a modified routine, and an instruction is executed in the modified routine during continued execution of the program, incrementing a counter.